



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

In re Application of:

Hembrough et al.

Serial No: 10/086,176

Filed: February 28, 2002

For: Compositions and Methods for
Inhibiting Cellular Proliferation
Comprising TFPI Fragments

Group Art Unit: Unassigned

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Attorney Docket No. 05213-0926 (43170-266780)

Respectfully submitted,

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Reg. No. 52,365

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on August 28, 2002.

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Application No.	10/086,176
Filing Date	02/28/2002
First Named Inventor	Hembrough et al.
Group Art Unit	1631
Examiner Name	Unassigned
Attorney Docket Number	05213-0296 (43170-266780)

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ²	Kind Code ³ (if known)			
	1	4,552,888		Koppel et al.	11/12/1985	
	2	4,994,443		Folkman et al.	02/19/1991	
	3	5,001,116		Folkman et al.	03/19/1991	
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Hembrough et al.

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		Office ³	Number ⁴ (if known)				
	14	WO	97/09063	Chiron Corp.	03/13/1997		
	15	WO	97/35609	Juridical Foundation the Chemo-Sero- Therapeutic Research Institute	02/10/1997		No

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	16	Author: ALGIRE, G.H. et al. Title: Vascular reactions of normal and malignant tumors in vivo. I. Vascular reactions of mice to wounds and to normal and neoplastic transplants Publ: <u>Journal of the National Cancer Institute</u> Vol/Iss: 6 Pages: 73-85 Date: 08/1945	
	17	Author: BOK, R.A. et al. Title: Quantitative Characterization of the Binding of Plasminogen to Intact Fibrin Clots, Lysine-Sepharose, and Fibrin Cleaved by Plasmin Publ: <u>Biochemistry</u> Vol/Iss: 24 Pages: 3279-3286 Date: 1985	
	18	Author: BREM, H. et al. Title: Interstitial chemotherapy with drug polymer implants for the treatment of recurrent gliomas Publ: <u>Journal of Neurosurgery</u> Vol/Iss: 74 Pages: 441-446 Date: 03/01/91	
	19	Author: BROZE et al. Title: Regulation of Coagulation by a Multivalent Kunitz-Type Inhibitor Publ: <u>Biochemistry</u> Vol/Iss: 29 (33) Pages: 7539-7546 Date: 08/21/90	
	20	Author: BROZE, G.J., Jr. et al. Title: Tissue Factor Pathway Inhibitor and the Revised Theory of Coagulation Publ: <u>Annu. Rev. Med.</u> Vol/Iss: 46 Pages: 103-112 Date: 1995	
	21	Author: CAO, Y. et al. Title: gro-B, a-C-X-C- Chemokine, is an Angiogenesis Inhibitor that Suppresses the Growth of Lewis Lung Carcinoma in Mice Publ: <u>Journal of Experimental Medicine</u> Vol/Iss: 182 Pages: 2069-2077 Date: 12/01/95	
	22	Author: CAO, Y. et al. Title: Kringle Domains of Human Angiostatin Publ: <u>The Journal of Biological Chemistry</u> Vol/Iss: 271 (46) Pages: 29461-29467 Date: 11/15/96	

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	23	Author: CARDIFF, R.D. Title: Protoneoplasia: The Molecular Biology of Murine Mammary Hyperplasia (Abstract only) Publ: <u>Advances in Cancer Research</u> Vol/Iss: 42 Pages: 167-190 Date: 01/01/84	
	24	Author: CHEN, C. et al. Title: A Strategy to Discover Circulating Angiogenesis Inhibitors Generated by Human Tumors Publ: <u>Cancer Research</u> Vol/Iss: 55 Pages: 4230-4233 Date: 10/01/1995	
	25	Author: CLEMENTS et al. Title: Kallikreins and kinins in inflammatory-like events in the reproductive tract (Abstract only) Publ: <u>Pharmacological Research</u> Vol/Iss: 35 (6) Pages: 537-540 Date: 06/1997	
	26	Author: CONTRINO, J. Title: <i>In situ</i> detection of tissue factor in vascular endothelial cells: Correlation with the malignant phenotype of human breast disease Publ: <u>Nature Medicine</u> Vol/Iss: 2 (2) Pages: 209-215 Date: 02/1996	
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	28	Author: DAVIES et al. Title: Pathobiology of Intimal Hyperplasia Publ: <u>British Journal of Surgery</u> Vol/Iss: 81 (4) Pages: 1254-1269 Date: 09/1994	
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	30	Author: DINBERGS et al. Title: Cellular Response to Transforming Growth Factor- β 1 and Basic Fibroblast Growth Factor Depends on Release Kinetics and Extracellular Matrix Interactions Publ: <u>The Journal of Biological Chemistry</u> Vol/Iss: 271 (47) Pages: 29822-29829 Date: 11/22/96	
	31	Author: ENJOJI, K. et al. Title: Effect of Heparin on the Inhibition of Factor Xa by Tissue Factor Pathway Inhibitor: A Segment, Gly ²¹² -Phe ²⁴⁰ , of the third Kunitz Domain is a Heparin-Binding Site Publ: <u>Biochemistry</u> Vol/Iss: 34 (17) Pages: 5725-5735 Date: 1995	
	32	Author: FERENCZY, A. et al. Title: The cytodynamics of endometrial hyperplasia and carcinoma Publ: <u>Annales de Pathologie</u> Vol/Iss: 3 (3) Pages: 189-201 Date: 09/1983	
	33	Author: FOLKMAN, J. Title: Tumor angiogenesis and tissue factor Publ: <u>Nature Medicine</u> Vol/Iss: 2 Pages: 167-168 Date: 02/01/96	
	34	Author: FOLKMAN, J. Title: What is the Evidence that Tumors are Angiogenesis Dependent? Publ: <u>Journal of the National Cancer Institute</u> Vol/Iss: 82 Pages: 4-6 Date: 01/03/90	
	35	Author: FOLKMAN, J. Title: Angiogenesis in cancer, vascular, rheumatoid and other disease Publ: <u>Nature Medicine</u> Vol/Iss: 1(1) Pages: 27-31 Date: 11/01/95	
	36	Author: FOLKMAN, J. Title: Angiogenesis and Its Inhibitors Publ: <u>Important Advances in Oncology</u> Vol/Iss: Pages: 42-62 Date: 1985	

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	37	Author: FOLKMAN, J. Title: Tumor Angiogenesis: Therapeutic Implications Publ: New England Journal of Medicine Vol/Iss: 285 (21) Pages: 1182-1186 Date: 11/18/71	
	38	Author: FOLKMAN, J. et al. Title: Long-term culture of capillary endothelial cells Publ: Proceedings of the National Academy of Science USA Vol/Iss: 76 Pages: 5217-5221 Date: 10/01/79	
	39	Author: FOLKMAN, J. et al. Title: Induction of angiogenesis during the transition from hyperplasia to neoplasia Publ: Nature Vol/Iss: 339 Pages: 58-61 Date: 05/04/89	
	40	Author: FOLKMAN, J. et al. Title: Tumor Behavior in Isolated Perfused Organs in vitro Growth and Metastases of Biopsy Material in Rabbit Thyroid and Canine Intestinal Segment Publ: Annals of Surgery Vol/Iss: 164(3) Pages: 491-502 Date: 09/01/66	
	41	Author: GIMBRONE, M.A. et al. Title: Tumor growth and neovascularization: An experimental model using the rabbit cornea Publ: Journal of the National Cancer Institute Vol/Iss: 52(2) Pages: 413-427 Date: 02/74	
	42	Author: GIMBRONE, M.A. et al. Title: Tumor dormancy <i>in vivo</i> by Prevention of Neovascularization Publ: Journal of Experimental Medicine Vol/Iss: 136 Pages: 261-276 Date: 1972	
	43	Author: GOOD, D.J. et al. Title: A tumor suppressor-dependent inhibitor of angiogenesis is immunologically and functionally indistinguishable from a fragment of thrombospondin Publ: Proceedings of the National Academy of Science USA Vol/Iss: 87 Pages: 6624-6628 Date: 09/90	

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	44	Author: GROSS, J.L. et al. Title: Modulation of Solid Tumor Growth in vivo by bFGF (Abstract only) Publ: Proceedings of the American Association of Cancer Research Vol/Iss: 31 Pages: 79 Date: 03/90	
	45	Author: GUPTA, S. et al. Title: A potent inhibitor of endothelial cell proliferation is generated by proteolytic cleavage of the chemokine platelet factor 4 Publ: Proceedings of the National Academy of Science USA Vol/Iss: 92 Pages: 7799-7803 Date: 08/95	
	46	Author: HAAS, A.F. et al. Title: Angiolymphoid Hyperplasia with Eosinophilia of the Hand Publ: Journal of Dermatologic Surgery and Oncology Vol/Iss: 17 Pages: 731-734 Date: 09/1991	
	47	Author: HANADA et al. Title: CARBOXYL TERMINAL BASIC AMINO ACID REGION OF TFPI PREVENTS PROLIFERATION OF HUMAN SMOOTH MUSCLE CELLS BY INHIBITING ACTIVATION OF MAP KINASE KINASE (Abstract only) Publ: Thrombosis and Haemostasis, Supplement Vol/Iss: Pages: Date: 07/2001	
	48	Author: HOLMGREN, L. et al. Title: Dormancy of micrometastases: Balanced proliferation and apoptosis in the presence of angiogenesis suppression Publ: Nature Medicine Vol/Iss: 1 (2) Pages: 149-153 Date: 02/95	
	49	Author: HOMANDBERG, G.A. et al. Title: Heparin-binding Fragments of Fibronectin are Potent Inhibitors of Endothelial Cell Growth Publ: American Journal of Pathology Vol/Iss: 120 Pages: 327-332 Date: 09/85	
	50	Author: INGBER, D. et al. Title: Synthetic analogues of fumagillin that inhibit angiogenesis and suppress tumor growth Publ: Nature Vol/Iss: 348 Pages: 555-557 Date: 12/06/90	

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	51	<p>Author: ISHINO et al. Title: An Autopsy Case of Cerebral Form of v. Winiwarter-Buerger's Disease with a Chronic Course of 12 Years</p> <p>Publ: Folia Psychiatrica Neurologica Japonica Vol/Iss: 27 (3) Pages: 207-221 Date: 1973</p>	
	52	<p>Author: KAMIKUBO, Y. et al. Title: Human Recombinant Tissue-Factor Pathway Inhibitor Prevents the Proliferation of Cultured Human Neonatal Aortic Smooth Muscle Cells</p> <p>Publ: FEBS Letters Vol/Iss: 407 Pages: 116-120 Date: 01/01/97</p>	
	53	<p>Author: KEHREL, B. Title: Platelet-collagen interactions</p> <p>Publ: Seminars in Thrombosis and Hemostasis Vol/Iss: 21 (2) Pages: 123-129 Date: 1995</p>	
	54	<p>Author: KHOURI, R.K. et al. Title: Local Application of Tissue Factor Pathway Inhibitor (TFPI) Inhibits Intimal Hyperplasia Induced by Arterial Interventions</p> <p>Publ: Surgical Forum Vol/Iss: 46 Pages: 389-391 Date: 1995</p>	
	55	<p>Author: KIM, K.J. et al. Title: Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumor growth in Vivo</p> <p>Publ: Nature Vol/Iss: 362 Pages: 841-844 Date: 04/29/93</p>	
	56	<p>Author: KNIGHTON, D. et al. Title: Avascular and Vascular Phases of Tumour Growth in the Chick Embryo</p> <p>Publ: British Journal of Cancer Vol/Iss: 35 Pages: 347-356 Date: 1977</p>	
	57	<p>Author: KORFF et al. Title: Integration of Endothelial Cells in Multicellular Spheroids Prevents Apoptosis and Induces Differentiation</p> <p>Publ: The Journal of Cell Biology Vol/Iss: 143 (5) Pages: 1341-1352 Date: 11/30/98</p>	

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	58	Author: KORFF et al. Title: Blood vessel maturation in a 3-dimensional spheroidal coculture model: direct contact with smooth muscle cells regulates endothelial cell quiescence and abrogates VEGF responsiveness Publ: <u>The FASEB Journal</u> Vol/Iss: 15 Pages: 447-457 Date: 02/2001	
	59	Author: KORFF et al. Title: Tensional forces in fibrillar extracellular matrices control directional capillary sprouting Publ: <u>Journal of Cell Science</u> Vol/Iss: 112 (19) Pages: 3249-3258 Date: 10/1999	
	60	Author: KOYAMA et al. Title: Regulation and Function of an Activation-Dependent Epitope of the β 1 Integrins in Vascular Cells after Balloon Injury in Baboon Arteries and in Vitro Publ: <u>American Journal of Pathology</u> Vol/Iss: 148 (3) Pages: 749-761 Date: 03/1996	
	61	Author: KUZUYA et al. Title: Antioxidants Stimulate Endothelial Cell Proliferation in Culture Publ: <u>Artery</u> Vol/Iss: 18 (3) Pages: 115-124 Date: 1991	
	62	Author: LINDAHL, A. Title: Coagulation Inhibition and Activation in Pancreatic Cancer Publ: <u>Cancer</u> Vol/Iss: 70 (8) Pages: 2067-2072 Date: 10/15/92	
	63	Author: LUPU, C. et al. Title: Thrombin Induces the Redistribution and Acute Release of Tissue Factor Pathway Inhibitor from Specific Granules within Human Endothelial Cells in Culture Publ: <u>Arteriosclerosis, Thrombosis, and Vascular Biology</u> Vol/Iss: 15 (11) Pages: 2055-2062 Date: 11/1995	
	64	Author: MAIONE, T.E. et al. Title: Inhibition of Angiogenesis by Recombinant Human Platelet Factor-4 and Related Peptides Publ: <u>Science</u> Vol/Iss: 247 Pages: 77-79 Date: 01/05/90	

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	65	Author: MCGEE, J. et al. Title: Simultaneous Expression of Tissue Factor and Tissue Factor Pathway Inhibitor by Human Monocytes. A Potential Mechanism for Localized Control of Blood Coagulation Publ: <u>Journal of Experimental Medicine</u> Vol/Iss: 179 Pages: 1847-1854 Date: 06/01/94	
	66	Author: MIYAGI, Y. et al. Title: cDNA Cloning and mRNA Expression of a Serine Protease Inhibitor Secreted by Cancer Cells: Identification as Placental Protein 5 and Tissue Factor Pathway Inhibitor-2 Publ: <u>Journal of Biochemistry</u> Vol/Iss: 116 Pages: 939-942 Date: 1994	
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Application No.	10/086,176
Filing Date	02/28/2002
First Named Inventor	Hembrough et al.
Group Art Unit	1631
Examiner Name	Unassigned
Attorney Docket Number	05213-0296 (43170-266780)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	72	Author: NIWANO et al. Title: Inhibitory action of amyloid precursor protein against human Hagemanb factor (factor XII) Publ: Journal of Laboratory Clinical Medicine Vol/Iss: 125 (2) Pages: 252-256 Date: 02/1995	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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First Named Inventor	Hembrough et al.
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Attorney Docket Number	05213-0296 (43170-266780)

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First Named Inventor

Hembrough et al.

Group Art Unit

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Examiner Name

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Author: TEICHER, B.A. et al.

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Author: WARSHAWSKY, I. et al.

Title: The Carboxy Terminus of Tissue Factor Pathway Inhibitor is Required for Interacting with Hepatoma Cells in Vitro and In Vivo

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Title: The low density lipoprotein receptor-related protein mediates the cellular degradation of tissue factor pathway inhibitor

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Date: 07/1994

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Author: WEIDNER, N. et al.

Title: Tumor angiogenesis: A New Significant and Independent Prognostic Indicator in Early-Stage Breast Carcinoma

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				Examiner Name	Unassigned
				Attorney Docket Number	05213-0296 (43170-266780)
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	100	Author: WEIDNER, N. et al. Title: Tumor Angiogenesis Correlates with Metastasis in Invasive Prostate Carcinoma Publ: American Journal of Pathology Vol/Iss: 143 (2) Pages: 401-409 Date: 08/1993			
	101	Author: WEIDNER, N. et al. Title: Tumor Angiogenesis and Metastasis-Correlation in Invasive Breast Carcinoma Publ: New England Journal of Medicine Vol/Iss: 324 (1) Pages: 1-8 Date: 01/03/91			

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